

2906232

https://www.phoenixcontact.com/us/products/2906232

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Set consisting of a 4-way signal conditioner with screw connection technology and a Rogowski coil 450 mm in length/140 mm in diameter for AC current measurement on busbars and power lines.

The signal conditioner outputs 8 different standard signals on the output side and has one switching output.

Commercial data

Item number	2906232
Packing unit	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 223 (C-5-2019)
GTIN	4055626048291
Weight per piece (including packing)	422.45 g
Weight per piece (excluding packing)	448 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Product properties

Product type	Current transformer
Data management status	
Article revision	03
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Typical measuring error	< 1 %
Protective circuit	Surge protection; 33 V suppressor diode
Step response (0–99%)	110 ms
Rated insulation voltage	300 V

Measuring coil

2x 0.22 mm (Signal (tinned))
1x 0.22 mm (Shielding (tinned))
double insulation
1000 V AC (rms CAT III)
600 V AC (rms CAT IV)
10.45 kV DC (60 s)
<± 0.2 %

Measuring transducers

Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	16 Hz 1000 Hz
Test voltage	3 kV (50 Hz, 1 min.)

General

Can be calibrated	no
Class	1
Accuracy class	1
Converter type	Rogowski coil and 4-way signal conditioner

Supply: Measuring transducers

cappily: measuring transcription	
Nominal supply voltage	24 V DC
Nominal supply voltage range	9.6 V DC 30 V DC
Power consumption	≤ 1 W (at I _{OUT} = 20 mA, 9.6 V DC, 600 Ω load)

Input data

Eroo	
1164	uency



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Designation	Measuring coil
Frequency measuring range	40 Hz 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %
Signal	
Input signal (at 50 Hz)	100 mV (1000 A)
Curve type	Sine
Input impedance	> 100 kΩ
Current transformer	
Configurable/programmable	Via DIP switches
Rated frequency: Standard converter	40 Hz 20000 Hz
Primary rated current I _{pn}	0 A AC 100 A AC
	0 A AC 250 A AC
	0 A AC 400 A AC
	0 A AC 630 A AC
	0 A AC 1000 A AC
	0 A AC 1500 A AC
	0 A AC 2000 A AC
	0 A AC 4000 A AC
Can be calibrated	no
Class	1
Accuracy class	1
Converter type	Rogowski coil and 4-way signal conditioner
itput data	
•	
Switching: Transistor	
Number of outputs	1
Contact switching type	1 N/O contact
Minimum switching voltage	1 V
N.A	001/100

Signal

Maximum switching voltage

Min. switching current

Max. switching current

Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	V _{OUT} = M * dl/dt
Output voltage (sinusoidal, in no-load operation)	100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μ H; example: At 50 Hz; I = 1,000 A))
Accuracy class	1

30 V DC

100 μΑ

100 mA (at 30 V)

Signal

Designation	Measuring transducer
Configurable/programmable	Yes



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Voltage output signal	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	0 V 10.5 V (can be set via software)
Max. voltage output signal	≈ Ù ĽŶ∵∨
Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	0 mA 10 mA (via DIP switch)
	2 mA 10 mA (via DIP switch)
	0 mA 21 mA (can be set via software)
Max. current output signal	24.6 mA
Load/output load voltage output	≥ 10 kΩ
Load/output load current output	≤ 600 Ω (20 mA)
Ripple	< 20 mV _{PP}
	< 20 mV _{PP}

Connection data

Measuring transducer side

Connection method	Screw connection
Stripping length	10 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	26 16
Tightening torque	0.5 Nm 0.6 Nm

Dimensions

Item dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Measuring coil

Length	450 mm
Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	140 mm

Signal line	
Length	3 m
Width	6.2 mm
Height	110.5 mm



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Do ath	400.5
Depth	120.5 mm
terial specifications	
Housing material	PC
	РВТ
Coil material	Elastollan
rironmental and real-life conditions	
mbient conditions	
Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-30 °C 80 °C (Measuring coil)
	-40 °C 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C 80 °C (Measuring coil)
	-40 °C 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)
Certificate	CE-compliant
KCA	
Certificate	UKCA-compliant
MIM	
Certificate	CMIM-compliant
L, USA/Canada	
Identification	UL 61010 Recognized
Note	Measuring coil
	measuring con
L, USA/Canada	
Identification	UL 508 Listed
Note	Measuring transducer
C data	
Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	EN 61000-6-4
ndards and regulations	
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1



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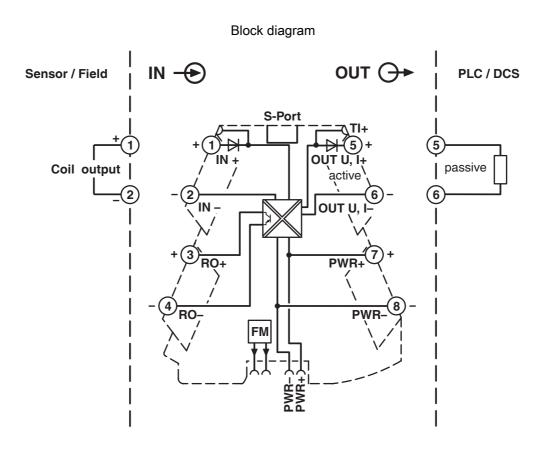
		IEC 61010-2-032
Мс	Mounting	
	Mounting type	DIN rail mounting



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Drawings





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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27210902
ECLASS-13.0	27210902
ECLASS-12.0	27210902
ETIM	
ETIM 8.0	EC002048
UNSPSC	

39121000



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	11b07d92-8674-47bc-a65b-34fcfc3fcaf8



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Accessories

PACT RCP-CLAMP - Holder

2904895

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The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

PACT RCP-CLAMP-5-10 - Holder

2907888

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The optional holding device ensures the Rogowski coil is securely seated on busbars that are 5 ... 10 mm thick. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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